Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Thor Resources, Inc. Well Name/Number: Thor Kevin HZ#30 Location: NW NW Section 29 T34N R2W County: Toole MT; Field (or Wildcat) Kevin Sunburst **Air Quality** (possible concerns) Long drilling time: No, 7 to 14 days drilling time. Unusually deep drilling (high horsepower rig): No Possible H2S gas production: Slight. In/near Class I air quality area: No Class I air quality area. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) __ Gas plants/pipelines available for sour gas __ Special equipment/procedures requirements Other: Comments: No special concerns **Water Quality** (possible concerns) Salt/oil based mud: No, air, air mist drilling system to be used. High water table: No high water table anticipated. Surface drainage leads to live water: No live water nearby. Water well contamination: No, no water wells within 1 mile of this location. Porous/permeable soils: No, silty sandy bentonite soils. Class I stream drainage: No Class I stream drainages. Mitigation: Lined reserve pit X Adequate surface casing __ Berms/dykes, re-routed drainage Closed mud system __ Off-site disposal of solids/liquids (in approved facility) Other: Comments: 400' of surface casing cemented to surface adequate. No potable groundwater or surface water in this area. . Soils/Vegetation/Land Use (possible concerns) Steam crossings: No, stream crossings anticipated. High erosion potential: No minor cut or fill required. Loss of soil productivity: No, location will be restored after drilling if nonproductive. If productive unused portion of drill site will be reclaimed. Unusually large wellsite: No. 350'X350' location size required. Damage to improvements: Slight, surface use is dry land cultivated (CRP) field.

Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other Comments: No special concerns.
Comments: No special concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: None nearby- I15 to East 1.5 miles Possibility of H2S: Slight
Size of rig/length of drilling time: Small drilling rig/short drilling time.
Mitigation:
Proper BOP equipment
Troper Bot equipment Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: No concerns.
Wildlife/recreation
(possible concerns) Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to sensitive wilding areas (DFWF identified). None identified. Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species <u>Listed threatened or endangered species in Toole</u>
County is the Black Footed Ferret.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Surface is private cultivated land. No concerns.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified.
Mitigation
avoidance (topographic tolerance, location exception)

_X other agency review (SHPO, DSL, federal agencies) Other:			
	Comments:	Surface is private cultivated land. No concerns.	
		Social/Economic	
(no	ssible concerns)		
(100)	Substantial ef	fect on tax base	
		nd for new governmental services	
		crease or relocation No concerns. Existing oil field, Kevin Sunburst Oil & Gas	
Field.		140 concerns. Existing on hold, Nevin Caribarat on a das	
		Remarks or Special Concerns for this site	
<u>We</u>	ll is a horizontal N	isku Formation test well in the Kevin Sunburst Oil & Gas Field.	
	Summary: Eval	uation of Impacts and Cumulative effects	
No le	na torm imposto s	avenueted, some chart torm imports will accur	
110 10	ong term impacts e	expected, some short term impacts will occur.	
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I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.			
		homas Richmond	
	Administrator January 27, 2014	<u></u>	
Date.	bandary 21, 201	'	
Other	Persons Contacte	d:	
Mont	tana Bureau of Mir	nes and Geology, GWIC website	
(Name	e and Agency)		
	e County water we	ells	
(subject discussed) January 27, 2014			
(date)			
l f	tion was increased	d hafara narmit annuavali	
If location was inspected before permit approval: Inspection date:			
Insped	ctor:		
Inspector: Others present during inspection:			